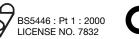




Models PG240. PAD240. PADC240, PAR230 Optical



PLEASE READ AND SAVE

INSTALLER: Please leave this manual with the product.

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111-276C

Model

FADC230

Innisation

Printed in U.S.A.

SMOKE ALARM DESCRIPTION

Model FADC230 Model GC240

Ionisation 230V AC smoke alarm with Easy Access Battery Door and False Alarm Control Ionisation 230V AC smoke alarm with

False Alarm Control Model I240C

Ionisation 230V AC smoke alarm with 9V battery back-up and False Alarm Control

Model IAR230C

Ionisation 230V AC smoke alarm with rechargeable battery backup and False Alarm Control Optical 230V AC smoke alarm and False Alarm Control

Model PG240 Model PAD240

Optical 230V AC smoke alarm with 9V

& PADC240 battery back-up with False Alarm Control Model PAR230

Optical 230V AC smoke alarm with rechargeable battery back-up and False Alarm Control

SMOKE ALARM FEATURES

- Interconnects with up to 36 Model GC240, I240C, PG240, PAD240, PADC240, IAR230C, PAR230, FADC230 smoke alarms and H230, H230CT, HR230C heat alarms. Unique power connector prevents interconnection with incompatible smoke alarms or security
- Tamper-resist bracket quickly snaps into place and serves as a safeguard against
- Multi-purpose green and red LEDs indicate that the smoke alarm is receiving AC power, working under normal operation, in alarm, or under False Alarm Control.
- Loud alarm horn—85 decibels at 3 metres (10 feet)—sounds to alert you of an emergency.
- Test button checks smoke alarm operation.
- Models GC240, I240C, PADC240, PG240, PAR230, FADC230 and IAR230C feature False Alarm Control, which, when activated, quiets unwanted alarms for up to 15 minutes.
- Models I240C, PAD240 and PADC240 will not attach to the mounting bracket if a battery is not in the battery pocket. These models will also sound a short beep about once a minute if the battery is weak or improperly connected.
- Models IAR230C and PAR230 include permanent rechargeable lithium batteries.
- Model FADC230 features easy access front loading battery compartment. Battery door cannot be closed if battery is not properly installed.
- Item 5086 features a latching LED which blinks the initiating alarm's red LED 3 times each minute until manually reset.
- Item 5086 has a ramp-up test horn feature which emits 2 reduced-volume beeps before reaching the full 85db level during testing.

IMPORTANT SAFETY INFORMATION PLEASE READ AND SAVE THESE INSTRUCTIONS

WARNING

- AC smoke alarms require constant 230V AC, 50Hz power to operate properly. Mains-powered smoke alarms WILL NOT work if AC power is not connected or has failed or been interrupted for any reason. Models I240C, FADC230, PAD240 and PADC240 require a working 9-volt battery to operate properly in the event of a power failure. Models IAR230C and PAR230 require a minimum of 2 full days under mains power to reach full backup capacity. DO NOT use any other kind of battery except as specified in this manual. DO NOT connect this smoke alarm to any other type of smoke alarm or auxiliary device, except those listed in this manual.
- DO NOT remove or disconnect battery or turn off AC power to quiet unwanted alarms. This will remove your protection. Open windows or fan the air around smoke alarm to silence it. Models GC240, I240C, IAR230C, PG240, PAR230, PADC240, and FADC230 smoke alarms feature a False Alarm Control button which, when activated, will quiet unwanted alarms for up to 15 minutes

- The Push-to-Test button accurately tests all smoke alarm functions. DO NOT use any other test method. Test smoke alarm weekly to ensure proper
 - This smoke alarm should be installed only by a qualified
 - · This smoke alarm is designed to be used inside a single family household only. In multi-family buildings, each individual living unit should have its own smoke alarms. Do not install in non-residential buildings or places which house many people like hotels, motels, dormitories, hospitals, nursing homes, or group homes of any kind. This smoke alarm is not a substitute for a complete alarm system.
 - Install a smoke alarm in every room and on every level of the home. Smoke may not reach the smoke alarm for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall, roof, or on the other side of a closed door, smoke may not reach the smoke alarm in time to alert household members. A smoke alarm will not promptly detect a fire EXCEPT in the area or room in which it is installed.
 - Interconnected smoke alarms installed in every room and on every level of the household offers maximum protection. We recommend interconnecting smoke alarms so that when one smoke alarm senses smoke and sounds its alarm all others will sound as well. Do not interconnect smoke alarms from one individual family living unit to another. Do not connect this smoke alarm to any other type of alarm or auxiliary device.
 - Smoke alarms may not alert every household member every time. The alarm horn is loud in order to alert individuals of a potential danger. However, there may be limiting circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, drug or alcohol usage, the hearing impaired, etc.). If you suspect that this smoke alarm may not alert a household member, install and maintain specialty smoke alarms. Household members must hear the alarm's warning sound and quickly respond to it to reduce the risk of damage, injury, or death that may result from fire. If a household member is hearing impaired, install special smoke alarms with lights or vibrating devices to alert occupants.
 - Smoke alarms can only sound their alarms when they detect smoke. Smoke alarms detect combustion particles in the air. They do not sense heat, flame, or gas. This smoke alarm is designed to give audible warning of a developing fire. However, many fires are fast-burning, explosive, or intentional. Others are caused by carelessness or safety hazards. Smoke may not reach the smoke alarm QUICKLY ENOUGH to ensure safe escape.
 - Smoke alarms have limitations. This smoke alarm is not fool-proof and is not warranted to protect lives or property from fire. Smoke alarms are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the smoke alarm to fail at any time. For this reason, you must test the smoke alarm weekly and replace every 10 years.

SMOKE ALARM PLACEMENT

It is recommended to achieve complete coverage protection by installing a smoke alarm in every room of your home.

At a minimum, smoke alarms shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional storey of the family living unit including basements and excluding crawl spaces and unfinished attics. Any home requires a minimum of two smoke alarms.

FOR BEST PROTECTION, IT IS RECOMMENDED THAT YOU **INSTALL A SMOKE ALARM IN EVERY ROOM**

In addition, it is recommended that all smoke alarms be interconnected.

Typical Efficiency **Home (Apartment)**

 Install a smoke alarm on the ceiling or wall closest to the sleeping area. Install a smoke alarm with False Alarm Control in the kitchen/living area.

Install a smoke alarm on the ceiling or wall

outside each separate sleeping area. If a

bedroom area hallway is more than 9 m

long, install a smoke alarm at each end.

inside each bedroom and in the hallway



KITCHEN LIVING AREA

LIVING ROOM

Typical Two-Storey Home

Typical Single Storey Home

• Install a smoke alarm on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area.

If a bedroom area hallway is more than 9 m long, install a smoke alarm at each end

 Install a smoke alarm at the top of a first-to-second floor stairwell.

Key Smoke Alarm

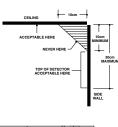
Smoke Alarm with False Alarm Control

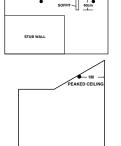
IMPORTANT SMOKE ALARM PLACEMENT AND EXCEPTION INFORMATION:

• Install a smoke alarm as close to the centre of the ceiling as possible. If this is not practical, mount no closer than 10 cm

(4 inches) from a wall or corner, Also, if local codes allow, install smoke alarms on walls, between 10 and 30 cm (4 and 12 inches) from ceiling/wall inter-

- Install a minimum of two smoke alarms in every home, no matter how small the home. Any size home requires fitting a minimum of two smoke
- Install a smoke alarm in each room that is divided by a partial wall (either coming down from the ceiling at least 60 cm (24 inches), or coming up from the floor).
- Install smoke alarms on peaked, cathedral, or gabled ceilings 1 m from the highest point (measured horizontally)
- Install a smoke alarm in lived-in attics or attics which house electrical equipment like furnaces, air conditioners, or heaters.





DO NOT install smoke alarms:



Near appliances or areas where normal combustion regularly occurs (kitchens, near boilers, hot water heaters). Use specialized smoke alarms with unwanted alarm control for these areas.



In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install at least 3 metres away from these areas.



Near air returns or heating and cooling supply vents. The air could blow smoke away from the detector, interrupting its alarm.



45°C (113°F).

In rooms where temperatures may fall below 5°C (41°F) or rise above



In extremely dusty, dirty, or insect-infested areas. Loose particles interfere with smoke alarm operation.

Do not site this alarm in area where water or other liquids may enter

HOW TO INSTALL THIS SMOKE ALARM

A DANGER:

ELECTRICAL SHOCK HAZARD. Turn off power at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position and securing it.

WARNING:

Mains operated smoke alarms should be installed by a qualified electrician in accordance with the Regulations for Electrical Installations published by the Institution of Electrical Engineers (BS). Failure to install this smoke alarm correctly may expose the user to shock or fire hazards.

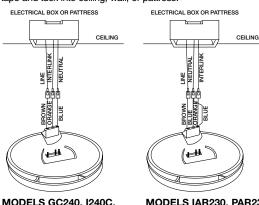
WARNING:

The smoke alarm, its associated supply, and interconnect wiring must be installed in accordance with BS 7671 published by the institution of Electrical Engineers

- Install smoke alarm on a wall, ceiling, standard electrical box, or surface mounting pattress.
- 1. Align mounting plate with mounting holes of standard electrical box or surface mounting pattress. For siting on wall or ceiling, use mounting plate as template to mark holes. Drill holes (for wall or ceiling only) and insert supplied screw plugs into holes until flush with wall or ceiling.
- 2. Secure mounting plate to electrical box, pattress, wall, or ceiling. (Diagram illustrates fixing mounting plate to electrical box.)
- Connect blue wire from connector plug of smoke alarm to neutral (black or blue) mains power wire.
- 4. Connect brown wire from connector plug of smoke alarm to live (red or brown) mains power wire
- 5. If interconnection is desired, connect orange wire from connector to interconnect wire between smoke alarms. See section, "Interconnecting Smoke Alarms.'

3

NOTE: If this will be a single-station smoke alarm, cover orange wire with electrical tape and tuck into ceiling, wall, or pattress



PG240, PAD240, PADC240 FADC230

MODELS IAR230, PAR230.

Steps 6-9 for Models I240C, PAD240 and PADC240 ONLY:

- 6. Lift open battery pocket door.
- 7. Connect new 9-volt battery to battery connector inside battery pocket. BE SURE BATTERY IS SECURELY CONNECTED. Smoke alarm may beep briefly when batterv is installed.
- 8. Close battery pocket door, snapping it into place
- 9. Push button and hold button on front cover of smoke alarm for three (3) seconds. Smoke alarm should sound its alarm horn if battery is fitted correctly.
- 10. Attach connector plug to pins on back of smoke alarm. Plug will only fit one way and will snap into place.
- 11. Gently tug connector to be sure it is attached securely.
- 12. Position smoke alarm to mounting plate so that keyslot on side of smoke alarm is to left of tab on mounting plate. Turn clockwise to lock into place.

NOTE: (For Models I240C, PAD240 and PADC240 only):

Smoke alarm will not mount to plate if battery is not installed

- 13. Turn on power at main fuse box or circuit breaker. The green LED on the cover should be illuminated
- 14. For Model FADC230 ONLY: Remove arrow tab and close battery door. Smoke alarm may beep briefly as door is closed.
- 15. Test smoke alarm. See "TESTING THE SMOKE ALARM".

INTERCONNECTING SMOKE ALARMS

- Use 1.5mm² minimum solid or stranded wire with a rating of 230V. When interconnecting, maximum wire length between any two is 450 m for 1.5mm² or 1200 m for 2.5mm² (20 OHMS loop resistance).
- This smoke alarm may be interconnected with as many as 35 other Models GC240, I240C, PG240, PAD240, PADC240, IAR230C, FADC230, and PAR230 smoke and H230, H230CT, HR230C heat alarms. DO NOT connect to any other type or model smoke alarm.
- Connect smoke alarms to a single AC branch circuit. If local codes do not permit, be sure the neutral wire is common to both phases. Wiring must conform to IEE Regulations for electrical installation.

GREEN LED

ON — AC power is present.

OFF — AC power is not present.

RED LED

Blinks once a minute Blinks once a second

- smoke alarm senses smoke and simultaneously sounds an audible alarm.

Blinks once every 10 seconds

(Models GC240, I240C, PADC240, IAR230C, PG240, PAR230 and FADC230.)

MODEL FADC230 ONLY

RED blinks 3 times

OFF - another smoke alarm in the network has sensed

 indicates this unit initiated an alarm in an inteconnected system (press the test button to reset).

RED blinks 4 times every minute preceded by an audible chirp

- indicates weak or improperly

RED AND GREEN LED INDICATORS

This smoke alarm features red and green LED indicators that can be seen through the Push-to-Test button or the LED lens above the test button. The LEDs indicate the following:

- indicating normal operation.

smoke alarm is quieting an unwanted alarm.

smoke and is signalling this alarm.

(Interconnected system only):

every minute

connected battery.